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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/605,791	10/27/2003	Li-Yi Chen	CMOP0025USA	2790
27765	7590	10/03/2006	EXAMINER BECK, ALEXANDER S	
NORTH AMERICA INTELLECTUAL PROPERTY CORPORATION P.O. BOX 506 MERRIFIELD, VA 22116			ART UNIT 2629	PAPER NUMBER

DATE MAILED: 10/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/605,791	Applicant(s) CHEN ET AL.	
	Examiner Alexander S. Beck	Art Unit 2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 August 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Acknowledgment is made of the amendment filed by the Applicant on August 18, 2006 in which: a certified English translation of Taiwan application no. 091132451 is attached. Claims 1-14 are currently pending in U.S. Application Serial No. 10/605,791, and an Office Action on the merits follows.

Priority

2. The certified English translation of the Taiwan application, relied upon as foreign priority of this U.S. Application under 35 U.S.C. 119(a)-(d), has overcome the rejection of Claims 1-14 under 35 U.S.C. 103(a) over Kim (U.S. Publication No. 2006/0055645). However, a new rejection is made in view of Knapp (U.S. Publication No. 2002/0063671 A1), which predates the foreign priority of the instant application.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Knapp (U.S. Publication No. 2002/0063671 A1, hereinafter KNAPP).

As to independent Claim 1, KNAPP teaches/suggests a display panel in Figure 3 comprising: a first scanning band (1 through K), a second scanning band (K+x through M) and a third scanning band (K through K+x) positioned between the first scanning band and the second scanning band, and each scanning band including a plurality of parallel scanning lines (1 through M); a plurality of parallel data lines (1 through N) extending across the first scanning band, the second scanning band and the third scanning band, the data lines and the scanning lines being perpendicular to each other, and each of the data lines including a disconnecting point positioned in the third scanning band; and a plurality of pixel units (10), each pixel unit being positioned around an intersection point of one scanning line and one data line and being electrically controlled by both the scanning line and the data line (KNAPP: page 4, paragraphs [0027,0028]).

As to Claim 2, KNAPP teaches/suggests the display panel in Figure 3 further comprising a first data driver (35A) and a second data driver (35B), and the first data driver and the second data driver are electrically connected with the data lines for inputting image data into each pixel unit (KNAPP: page 4, paragraphs [0027,0028]).

As to Claim 3, KNAPP teaches/suggests the display panel in Figure 3 further comprising a signal supplier (40) for supplying each pixel unit with the image data (KNAPP: page 4, paragraphs [0027,0028]).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 4-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knapp (U.S. Publication No. 2002/0063671 A1).

As to Claim 4, KNAPP does not disclose expressly the display panel further comprising a memory for storing the image data supplied by the signal supplier, with the stored image data being further outputted from the memory into the first data driver and the second data driver.

However, the examiner takes official notice that a signal supplier, memory and first and second data drivers operating together as presently claimed is old and well known in the art (see Figure 2 of Applicant's Admission of Prior Art).

Thus, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the teachings of KNAPP such that a signal supplier, memory and first and second data drivers operated together as presently claimed.

The suggestion/motivation for doing so would have been to selectively display data on an active matrix by controlling the transmission of data from a controlling unit to respective data drivers by latching the data in a memory means.

As to Claim 5, KNAPP teaches/suggests the display panel in Figure 3 further comprising a gate driver (30) for applying scanning signals to the scanning lines of each scanning band (KNAPP: page 4, paragraphs [0027,0028]).

As to Claim 6, KNAPP teaches/suggests the display panel in Figure 3 wherein when the first data driver and the second data driver respectively input the image data into each pixel unit positioned in the first scanning band and the second scanning band, the gate driver applies a first scanning signal to the scanning lines of the first scanning band in sequence according to a first scanning direction so as to enable the pixel unit electrically controlled by each scanning line of the first scanning band to accept a corresponding image data, and the first scanning signal is simultaneously applied (at least partially) to the scanning lines of the second scanning band in sequence according to a second scanning direction so as to enable the pixel unit electrically controlled by each scanning line of the

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second scanning band to accept a corresponding image data (KNAPP: page 4, paragraphs [0027-0029]).

As to **Claim 7**, KNAPP teaches/suggests the display panel in **Figure 3** wherein when the first data driver and the second data driver input the image data into each pixel unit positioned in the third scanning band, the gate driver applies a second scanning signal to the scanning lines of the third scanning band in sequence according to a third scanning direction (KNAPP: page 4, paragraphs [0027-0029]).

As to **Claim 8**, KNAPP teaches/suggests the display panel in **Figure 3** wherein the first data driver and the second data driver input the same image data into the third scanning band (KNAPP: page 4, paragraphs [0027-0029]).

As to **Claims 9-14**, KNAPP does not disclose expressly wherein the first and second scanning directions are identical, the third and first scanning directions are identical, the third and first scanning directions are opposite, or the first scanning direction and the second direction are opposite.

However, since the Applicant has failed to disclose that the various scanning directional relationships between the first, second and third directions are used for a particular purpose, or solves a stated problem, it is an obvious matter of design choice to have such a variety of scanning directional relationships in the teaching of KNAPP.

Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to further modify the teachings of KNAPP such that the various scanning directional relationships were included.

The suggestion/motivation for doing so would have been as a matter of design choice by one of ordinary skill in the art.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander S. Beck whose telephone number is (571) 272-7765. The examiner can normally be reached on M-F, 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

asb
9/28/06


SUMATI LEFKOWITZ
SUPERVISORY PATENT EXAMINER